

Amendments to the Drawings

Formal drawings (Figures 1-8) are attached as seven replacement sheets 1/7 - 7/7.

Minor changes have been made to Figures 1 and 2 (annotated sheets attached with changes shown in red). In Figure 1, the clamping mechanism was erroneously referred to as "4" when the correct number is -- 12 --. Reference number 12 is correct in Figure 2.

In Figure 2, a reference number is missing from the lead line to the outer ring portion. The number -- 4 -- has been inserted as this is the number utilized in paragraph [0018], line 3.

Attachments: Seven (7) Replacement Sheets

Two (2) Annotated Sheets Showing Changes

Remarks

The present invention is directed to a coolant delivery apparatus for a machine tool wherein the position of the coolant delivery apparatus comprising a plurality of coolant nozzles in communication with a positionable coolant header is controllable such that coolant may be delivered to the machining zone of a tool even though the location of the machining zone of the tool may change such as during machining of a workpiece, or from one workpiece to another.

The status of the claims is as follows:

1. Claims 1-8 and 13-18 are rejected under 35 U.S.C. §102(b) as being clearly anticipated by Eckardt et al. (US 4,739,586).
2. Claims 9, 11, and 12 are rejected under 35 U.S.C. §103(a) as being unpatentable over Eckardt et al. '586 in view of Kalb (US 6,712,061).
3. Claim 10 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The specification at paragraphs [0017] and [0018] has been corrected to properly identify the workpiece clamping mechanism with reference number "12" as is shown in Figure 2.

Also, drawing Figures 1 and 2 have been corrected to show the clamping mechanism as "12" (not "4") in Figure 1 and to include reference number "4" in Figure 2 at the location of the empty lead line. Finally, replacement formal drawings (all Figures 1-8) have been submitted in which Figures 1 and 2 incorporate the drawing changes noted above. The Examiner's approval is respectfully requested.

Claims 1-8 and 13-18 are rejected as being clearly anticipated by Eckardt et al. (US 4,739,586). The rejection is respectfully traversed.

Eckardt et al. disclose a glass grinding apparatus wherein a nozzle directs a jet of coolant to a grinding point S and wherein the nozzle is positionable to "follow" the grinding point S so that coolant is provided to point S regardless of its position.

However, there is no disclosure in Eckardt et al. of a plurality of nozzles in communication with a coolant header as is now claimed in claims 1 and 14. In fact, there is no disclosure of a coolant header in Eckardt et al. where only a single nozzle 6 is disclosed. If another nozzle is to be added according to Eckardt et al., a second nozzle arm 10 is contemplated (column 3, lines 38-41). A coolant header allows for the distribution of coolant to multiple nozzles and enables the volume and pressure of the coolant flow emanating from each nozzle to be generally the same. No such header is shown or suggested by Eckardt et al. The present claims also recite that the coolant header is positionable with the coolant nozzles. No such capability can be shown in Eckardt et al. since there is no coolant header taught.

Applicant has amended claims 1 and 14 (and appropriate dependent claims) to recite the present invention comprises a "plurality" of coolant nozzles, in contrast to the single nozzle of Eckardt et al. Support for this amendment can be found in paragraph [0024] at line 2. Additionally, Applicant has incorporated the subject matter of claims 2 and 16 (now cancelled) into respective claims 1 and 14 to further define the claimed invention as including the plurality of nozzles in communication with a coolant header that is positionable along with the coolant nozzles.

Given the absence of the teaching in Eckardt et al. of a plurality of coolant nozzles in communication with a coolant header that is positionable along with the coolant nozzles, the rejection of claims 1-8 and 13-18 as being clearly anticipated by Eckardt et al. should be withdrawn.

Claims 9, 11, and 12 are rejected as being unpatentable over Eckardt et al. '586 in view of Kalb (US 6,712,061). Eckardt et al. is discussed above and such discussion is hereby referred to and repeated. Kalb teaches a wheeled trolley for carrying tools

across a workpiece via a track and pulley/cable system. Kalb provides no teaching which addresses the deficiencies of Eckardt et al. as discussed above. Therefore, the inclusion of Kalb still does not reasonably guide the artisan to the present invention as is now claimed. As such the rejection of claims 9, 11 and 12 should be withdrawn.

The Examiner's indication of allowable subject matter in claim 10 is noted with appreciation. However, with the incorporation of claims 2 and 16 into respective claims 1 and 14 to further define the claimed invention as including the plurality of nozzles in communication with a coolant header that is positionable along with the coolant nozzles, Applicant has now recited an invention that is believed to be novel and unobvious over the cited prior art.

Conclusion

With the above-discussed amendments and remarks, Applicant believes the rejections based on Eckardt et al. alone or in combination with Kalb have now been overcome. In this light, withdrawal of all rejections is respectfully requested and a prompt Notice of Allowance is earnestly solicited.

If the Examiner has any questions, she is cordially invited to telephone Applicant's Agent at (585) 461-8071. Should any additional fees be required in order that this paper, or any attachments hereto, be deemed a complete and timely response, the Commissioner is hereby authorized to charge Deposit Account No. 07-1425 for any such fees.

Respectfully submitted,

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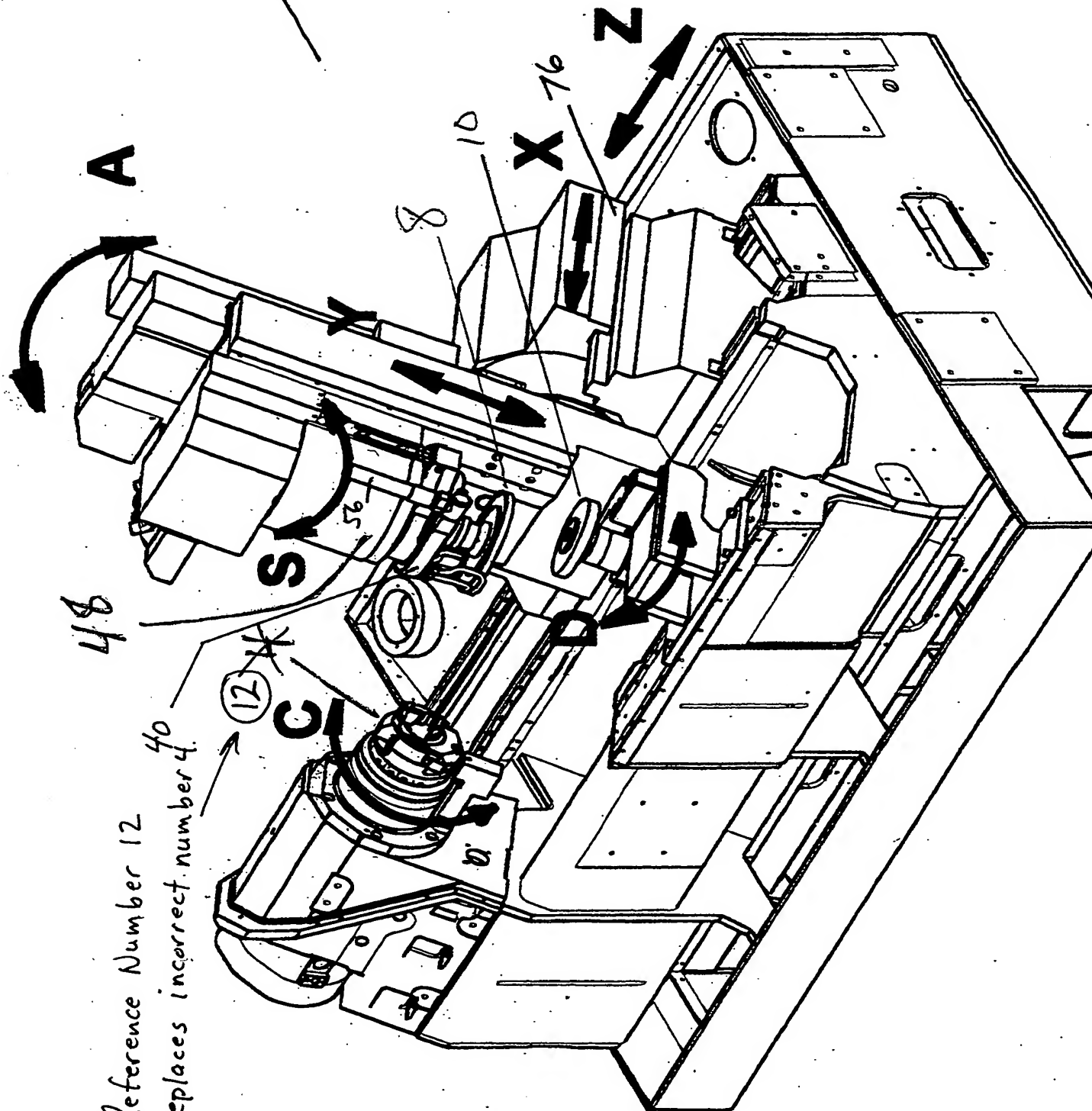
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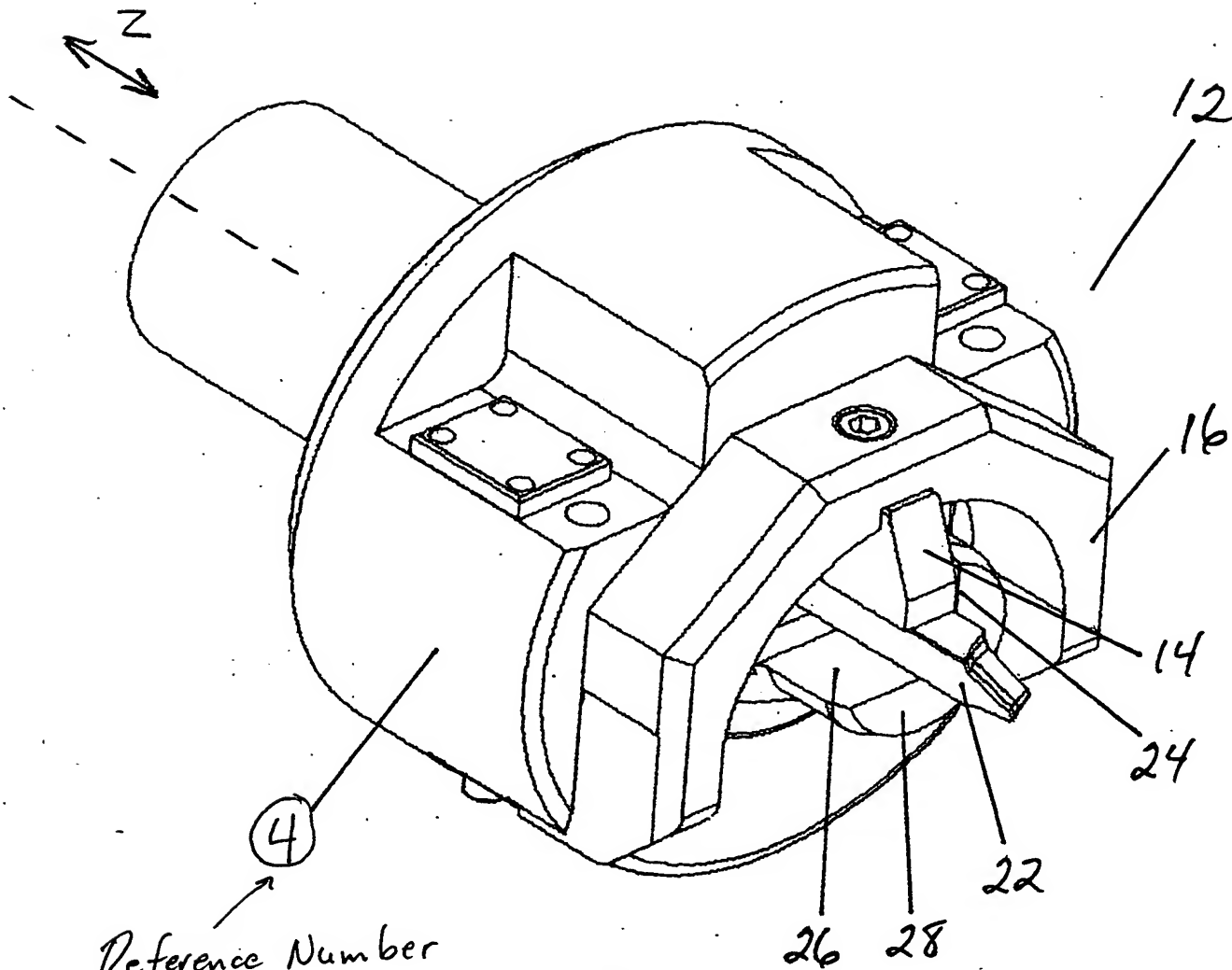

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Fig. 1



Reference Number 12
Replaces incorrect number 40⁴⁰



Reference Number
4 added

Fig. 2